

NO.8 DOES NOT SHIFT TO 4GR

B3E050319090W12

8	Does not shift to 4GR
DESCRIPTION	<ul style="list-style-type: none"> • Vehicle does not upshift from 3GR to 4GR even though vehicle speed is increased. • Vehicle does not shift to 4GR even though accelerator pedal is released in D range at 60 km/h {37 mph}.
POSSIBLE CAUSE	<p>• Basically, TCC does not operate when the fail-safe is operating. Verify the DTCs first. If the TCC operates when driving at high speeds only, the malfunction (improper adjustment) is in the TR switch circuit.</p> <p>Caution</p> <ul style="list-style-type: none"> • If the TCC is stuck, inspect it. In addition, inspect the oil cooler for foreign particles which may have mixed in with the ATF. <ol style="list-style-type: none"> 1. TCC piston slippage, burned <ul style="list-style-type: none"> • Line pressure low • TP sensor malfunction • Engine coolant temperature sensor malfunction • Vehicle speed sensor malfunction • Input/turbine speed sensor malfunction • Sensor GND malfunction 2. Transaxle fluid temperature sensor malfunction <ul style="list-style-type: none"> • Short or open circuit in wiring harness • Poor connection of connector • Sensor malfunction 3. TR switch malfunction <ul style="list-style-type: none"> • Short or open circuit in wiring harness • Poor connection of connector • Sensor malfunction • Selector lever adjustment incorrect • TR switch adjustment incorrect 4. Shift solenoid A, shift solenoid B, shift solenoid D valve malfunction <ul style="list-style-type: none"> • Short or open circuit in wiring harness • Poor connection of connector • Solenoid valve stuck 5. M range switch malfunction 6. Control valve body malfunction <p>Note</p> <ul style="list-style-type: none"> • Before following the troubleshooting steps, make sure that the Automatic Transaxle On-Board Diagnostic and Automatic Transaxle Basic Inspection are conducted.

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	With the ignition switch at the ON position, does the gear position indicator light indication correspond to the selector lever position?	Yes	Go to the next step.
		No	Go to No.27 "GEAR POSITION INDICATOR LIGHT DOES NOT ILLUMINATE IN M RANGE" or No. 28 "GEAR POSITION INDICATOR LIGHT ILLUMINATES IN D RANGE OR P, N, R POSITIONS"
2	Inspect the value at the following PCM PIDs using the WDS or equivalent. (See PCM INSPECTION [ZJ, Z6] .) (See PCM INSPECTION [LF] .) • TFT • TFTV Are the PID values normal?	Yes	Go to the next step.
		No	Repair or replace any malfunctioning parts.
3	Inspect the value at the following PCM PIDs using the WDS or equivalent. (See PCM INSPECTION [ZJ, Z6] .) (See PCM INSPECTION [LF] .) • SSA/SS1 • SSB/SS2 • SSC/SS3 Are the PID values normal?	Yes	Overhaul the control valve body and repair or replace any malfunctioning parts. (See ATX workshop manual (FN4A-EL).) If any problem remains, overhaul the transaxle and repair or replace any malfunctioning parts. (See ATX workshop manual (FN4A-EL).)
		No	Go to the next step.
4	Disconnect the PCM connector. Is the resistance between the ground terminal at the PCM connector and the body ground less than 5.0 ohms ?	Yes	Inspect the value at the following PCM PIDs using the WDS or equivalent. (See PCM INSPECTION [ZJ, Z6] .) (See PCM INSPECTION [LF] .) • TR • TSS • OSS Repair or replace any malfunctioning parts.
		No	Repair open ground circuit. Reconnect the PCM.
5	• Verify the test results. - If normal, return to the diagnostic index to service any additional symptoms. - If the malfunction remains, inspect the related Service information and perform repair or diagnosis. • If the vehicle is repaired, troubleshooting is completed. • If the vehicle is not repaired or additional diagnostic information is not available, replace the PCM.		